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## Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in this application.

## **Listing of Claims:**

- 1. (Currently amended) A method for a mobile unit determining a data transmit diversity mode of a base station in a wireless communication system, comprising:
- (a) estimating a first channel feedback weight of said mobile unit during a first time slot, said first channel feedback weight having a first feedback phase;
- (b) estimating a second channel feedback weight of said mobile unit during a second time slot, said second channel feedback weight having a second feedback phase; and
- (c) determining said data transmit diversity mode of said base station according to said first feedback phase and said second feedback phase, and sending a command of disabling a closed loop transmit diversity mode to said base station when it is determined that the closed loop transmit diversity mode is to be disabled.
  - 2. (Original) The method of claim 1, step (c) further comprising:
- (d) obtaining a phase difference of said first feedback phase and said second feedback phase; and
- (e) determining said data transmit diversity mode of said base station according to said phase difference.
  - 3. (Currently amended) The method of claim 2, step (e) further comprising:

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(f) adding a first value to a determining value if said phase difference is greater than a first predetermined value, and subtracting said determining value by a second value if said phase difference is less than said first predetermined value; and

- (g) sending a command of disabling a closed loop transmit diversity mode to said base station determining to stop the closed loop transmit diversity if said determining value is greater than a second predetermined value.
- 4. (Original) The method of claim 3, said first value being equal to said second value.
- 5. (Currently amended) A method for a mobile unit determining a data transmit diversity mode of a base station in a wireless communication system, comprising:
- (a) calculating a tune weight of said mobile unit corresponding to a signal received from said base station during a current time slot, said tune weight having a tune phase;
- (b) estimating a feedback weight of said mobile unit during said current time slot, said feedback weight having a feedback phase; and
- (c) determining said data transmit diversity mode of said base station according to said tune weight and said feedback weight, and sending a command of disabling a closed loop transmit diversity mode to said base station when it is determined that the closed loop transmit diversity mode is to be disabled.
- 6. (Original) The method of claim 5, wherein said tune weight of step (a) is a difference of a channel signal from a common pilot channel and a pilot symbol of a

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dedicated physical channel of said base station.

7. (Original) The method of claim 5, step (c) further comprising:

- (d) obtaining a phase difference of said tune phase and said feedback phase; and
- (e) determining said data transmit diversity mode of said base station according to said phase difference.
  - 8. (Currently amended) The method of claim 7, step (e) further comprising:
- (f) adding a first value to a determining value if said phase difference is greater than a first predetermined value, and subtracting said determining value by a second value if said phase difference is less than said first predetermined value; and
- (g) sending a command of disabling a closed loop transmit diversity mode to said base station determining to stop the closed loop transmit diversity if said determining value is greater than a second predetermined value.
- 9. (Original) The method of claim 8, said first value being equal to said second value.
- 10. (Currently amended) An apparatus for a mobile unit determining a data transmit diversity mode of a base station in a wireless communication system, comprising:

an estimating unit for estimating a first channel feedback weight of said mobile unit during a first time slot, said first feedback weight having a first feedback phase, and for estimating a second feedback weight of said mobile unit during a second time slot, said second feedback weight having a second feedback phase; and

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a determining unit for determining said data transmit diversity mode of said base station according to said first feedback phase and said second feedback phase; and a sending unit for sending a command of disabling a closed loop transmit diversity mode to said base station.

11. (Currently amended) The apparatus of claim 10, said determining unit further comprising:

a comparing unit for obtaining a phase difference of said first feedback phase and said second feedback phase; and

a weight unit for adding a first value to a determining value if said phase difference is greater than a first predetermined value, and subtracting said determining value by a second value if said phase difference is less than said first predetermined value,; and

wherein said a-sending unit for sending a the command of disabling a the closed loop transmit diversity mode to said base station if said determining value is greater than a second predetermined value.

12. (Currently amended) An apparatus for a mobile unit determining a data transmit diversity mode of a base station in a wireless communication system, comprising:

a calculating unit for calculating a tune weight of said mobile unit corresponding
-to-a signal received from said base station during a current time slot, said tune weight
having a tune phase;

an estimating unit for estimating a feedback weight of said mobile unit during said current time slot, said feedback weight having a feedback phase; and

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a determining unit for determining said data transmit diversity mode of said base station according to said tune weight and said feedback weight-; and

a sending unit for sending a command of disabling a closed loop transmit diversity mode to said base station.

- 13. (Original) The method of claim 12, wherein said tune weight is a difference of a channel signal from a common pilot channel and a pilot symbol of a dedicated physical channel of said base station.
- 14. (Currently amended) The apparatus of claim 12, said determining unit further comprising:

a comparing unit for obtaining a phase difference of said tune phase and said feedback phase; and

a weight unit for adding a first value to a determining value if said phase difference is greater than a first predetermined value, and subtracting said determining value by a second value if said phase difference is less than said first predetermined value; and

wherein the a-sending unit for-sending a the command of disabling a the closed loop transmit diversity mode to said base station if said determining value is greater than a second predetermined value.